

09/039072

ABSTRACT

A loudspeaker unit which requires no particular procedure for correction of the acoustic characteristic even if the installation environment of the loudspeaker unit changes, and which can correct, in addition to the frequency characteristic, a sound lag and a phase shift ascribable to the reverberation and an echo of a sound. The loudspeaker unit picks up a sound regenerating from the loud speaker with a microphone, and compares in real time a sound from a sound source with a regenerative sound, referring to a difference therebetween, with reference to the characteristic at an optional frequency and the characteristic of the reverberation or the echo each including the delay time, respectively, and corrects the signal to be sent to the loudspeaker by the result of arithmetic.